EMISSION APPLICATIONS

NOTE: Always refer to Emission Control label in engine compartment before attempting service. If manual and Emission Control label differ, always use information provided on Emission Control label.

2003 VOLKSWAGEN

Model, Engine & Fuel System	(1) Emission Control Systems & Devices
Beetle	
1.8L 4-Cyl. Turbo SFI (Engine Code AWV)	**PCV, EVAP, TWC, FR, SPK, AIS, (2) HO2S** EVAP-CPRV, EVAP-CKV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM, AIS-SV
1.9L 4-Cyl. Turbo Diesel DFI (Engine Code ALH)	**PVC, OC, EGR, CEC, MIL,**(4) PCV-HE, FGOV, EGR-CKV, EGR-CLR, EGR-VRSV
2.0L 4-Cyl. SFI (Engine Codes AVH & AZG)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (2) HO2S, CEC, MIL,**(4) PVC-HE, CB, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM
EuroVan	
2.8L VR6 SFI (Engine Code AXK)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (2) HO2S, CEC, MIL,**(4) PCV-HE, EVAP-CKV, EVAP-CPRV, EVAP-CPSV, (3) EVAP-LDP, EVAP-VC, FCOV, FGOV, FGVV, FTCV, FTVPRV, FTVPV, SPK-CC, AIS-CV, AIS-PM, AIS-SV,
Golf	
1.9L 4-Cyl. Turbo Diesel DFI (Engine Code ALH)	**PVC, OC, EGR, CEC, MIL,**(4) PCV-HE, FGOV, EGR-CKV, EGR-CLR, EGR-VRSV
2.0L 4-Cyl. SFI (Engine Codes AVH & AZG)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (2) HO2S, CEC, MIL,**(4) PCV-HE, CB, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM
2.0L 4-Cyl. SFI (Engine Code BBW)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (6) HO2S, CEC, MIL,**(4) PCV-HE, CB, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-PM
GTI	
1.8L 4-Cyl. Turbo	

SFI (Engine Code AWP)	**PCV, EVAP, TWC, FR, SPK, AIS, (2) HO2S** EVAP-CPRV, EVAP-CKV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM, AIS-SV
2.8L VR6 SFI (Engine Code BDF)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (2) HO2S, CEC, MIL,** CB, (4) PVC-HE, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-IMCV, AIS-CV, AIS-PM, AIS-SV
Jetta	
1.8L 4-Cyl. Turbo SFI (Engine Code AWP)	**PCV, EVAP, TWC, FR, SPK, AIS, (2) HO2S** EVAP-CPRV, EVAP-CKV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM, AIS-SV
1.9L 4-Cyl. Turbo Diesel DFI (Engine Code ALH)	**PVC, OC, EGR, CEC, MIL,**(4) PCV-HE, FGOV, EGR-CKV, EGR-CLR, EGR-VRSV
2.0L 4-Cyl. SFI (Engine Codes AVH & AZG)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (2) HO2S, CEC, MIL,**(4) PCV-HE, CB, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM
2.0L 4-Cyl. SFI (Engine Codes BBW)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (6) HO2S, CEC, MIL,**(4) PCV-HE, CB, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM
2.8L VR6 SFI (Engine Code BDF)	**PCV, EVAP, TWC, FR, SPK, (5) AIS, (2) HO2S, CEC, MIL,** CB, (4) PVC-HE, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM, AIS-SV
Passat	
1.8L 4-Cyl. Turbo SFI (Engine Code AWM)	**PCV, EVAP, TWC, FR, SPK, AIS, (2) HO2S, CEC, MIL,** CB, EVAP-CPRV, EVAP-CKV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM, AIS-SV
2.8L V6 SFI (Engine Code ATQ)	**PCV, EVAP, (7) TWC, FR, SPK, (5) AIS, (8) HO2S, CEC, MIL,** CB, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, FTVPRV, SPK-CC, AIS-CV, AIS-PM, AIS-SV
4.0L V8 SFI (Engine Code BDP)	**PCV, EVAP, (7) TWC, FR, SPK, (5) AIS, (8) HO2S, CEC, MIL,** CB, EVAP-CPRV, (3) EVAP-LDP, EVAP-LDPAF, EVAP-VC, FCOV, FGOV, SPK-CC, AIS-PM, AIS-CV, AIS-SV

(1) For quick reference, major emission control systems and devices are listed in bold type; components and other related devices are listed in light type.

(2) Engine uses two oxygen sensors.

Leak detection pump is located below right rear wheel housing liner.

(3)

(4) Mounted on side of air intake hose between air intake hose and PCV valve hose.

(5) May also be referred to as secondary air injection system.

(6) Engine uses three oxygen sensors and one exhaust gas temperature sensor.

(7) Vehicle is equipped with two catalytic converters.

(8) Engine uses four oxygen sensors.

ABBREVIATIONS

AIS

Air Injection System

AIS-CV

AIS Combination Valve

AIS-PM

AIS Pump Motor

AIS-SV

AIS Solenoid Valve

CB

Crankcase Breather

CEC

Computerized Engine Controls

DFI

Diesel Fuel Injection

EGR

Exhaust Gas Recirculation

EGR-CKV

EGR Check Valve

EGR-CLR

EGR Cooler

EGR-TS

EGR Temperature Sensor

EGR-VRSV

EGR Vacuum Regulator Solenoid Valve

EVAP

Fuel Evaporative System

EVAP-CKV

EVAP Check Valve

EVAP-CPRV

EVAP Canister Purge Regulator Valve

EVAP-CPSV

EVAP Canister Purge Solenoid Valve

EVAP-LDP

EVAP Leak Detection Pump

EVAP-LDPAF

EVAP Leak Detection Pump Air Filter

EVAP-VC

EVAP Vapor Canister

FCOV

Fuel Change Over Valve

FGOV

Fuel Gravity/Overflow Valve

FGVV

Fuel Gravity Vent Valve

FR

Fill Pipe Restrictor

FTCV

Fuel Tank Check Valve

FTVPRV

Fuel Tank Ventilation Pressure Retention Valve

FTVPV

Fuel Tank Vacuum Protection Valve (For EVAP Leak Diagnostic Test)

HO2S

Heated Oxygen Sensor

MIL

Malfunction Indicator Light

OC

Oxidation Catalytic Converter

PCV

Positive Crankcase Ventilation

PCV-HE

PCV Heating Element

SFI

Sequential Multiport Fuel Injection

SPK

Spark Controls

SPK-CC

SPK Computer Controlled

TRTVV

Temperature Regulator Thermal Vacuum Valve

TWC

Three-Way Catalytic Converter